

1. THESE DOOR SYSTEMS HAVE BEEN TESTED, ANALYZED & APPROVED FOR DESIGN PRESSURES NOT TO EXCEED THOSE SHOWN IN THE "ALLOWABLE DESIGN PRESSURE TABLE(S).
2. OPENINGS, BUCKING & BUCKING FASTENERS MUST BE PROPERLY DESIGNED & INSTALLED TO TRANSFER WIND LOADS TO THE STRUCTURE.
3. ALL HARDWARE & FASTENERS SHALL BE IN ACCORDANCE WITH THESE DRAWINGS & SHALL NOT VARY UNLESS SPECIFICALLY MENTIONED ON THE DRAWINGS. ALL NAIL OR NAIL ANCHOR EMBED TO BASE MATERIAL SHALL BE BEYOND WALL FINISH OR STUCCO.
4. THE DETAILS & SPECIFICATIONS SHOWN HEREIN REPRESENT THE PRODUCTS TESTED & PROPOSED FOR WATER, AIR, IMPACT, CYCLIC & UNIFORM STATIC AIR PRESSURE TESTING IN CONFORMANCE WITH PROTOCOLS TAS-201, 202 & 203 FOR LARGE MISSILE IMPACT DOORS.
5. THESE DOOR SYSTEMS HAVE BEEN DESIGNED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE (IBC).
6. IMPACT SHUTTERS ARE NOT REQUIRED WITH THESE DOORS.
7. ALL ANCHORS SECURING DOOR FRAME TO PRESSURE TREATED BUCKS OR WOOD FRAMING SHALL BE CAPABLE OF RESISTING CORROSION CAUSED BY THE PRESSURE TREATING CHEMICALS IN THE WOOD.
8. DETERMINE THE POSITIVE & NEGATIVE DESIGN LOADS TO USE WHEN REFERENCING THESE DOCUMENTS IN ACCORDANCE WITH THE GOVERNING CODE AND COVERING WIND VELOCITY, WIND LOAD CALCULATION IN ACCORDANCE WITH THE INTERNATIONAL BUILDING CODE. DIRECTIONALITY FACTOR OF $K_D = 0.85$ MAY BE APPLIED PER THE ASCE-7 STANDARD.
9. NO INCREASE IN ALLOWABLE STRESS HAS BEEN USED IN THE CERTIFICATION OF THIS PRODUCT. WIND LOAD DURATION FACTOR $C_D = 1.6$ WAS USED FOR WOOD SCREW ANALYSIS ONLY.
10. MATERIALS, INCLUDING BUT NOT LIMITED TO STEEL SCREWS, THAT COME INTO CONTACT WITH OTHER CORROSIVE MATERIALS SHALL BE SEPARATED OR COATED AS REQUIRED TO AVOID CORROSION OF EITHER MATERIAL.
11. TO THE BEST OF OUR KNOWLEDGE, THE DOOR SYSTEMS SHOWN HEREIN ARE QUALITY ASSURED BY AN APPROVED CERTIFICATION/QA ENTITY & SHALL BE LABELED IN ACCORDANCE WITH APPLICABLE STANDARDS. THESE DRAWINGS SHOW ALL APPLICABLE ELEVATION, COMBINATION, INSTALLATION & COMPARATIVE ANALYSIS CONDITIONS AS DETERMINED THROUGH TESTING & ENGINEERING RATIONAL ANALYSIS. DOOR ASSEMBLY SHALL BE IN ACCORDANCE WITH THESE DRAWINGS, THE MANUFACTURER'S QUALITY ASSURANCE CERTIFICATION, & TESTING REPORTS.
12. IF THESE DOORS ARE NOT INSTALLED WITH THE REQUIRED ANCHORS, THEY SHALL BE INSTALLED WITHOUT A BUILDING PERMIT FROM THE APPLICABLE LOCAL BUILDING DEPARTMENT OR IF THEY ARE INSTALLED BY ANYONE OTHER THAN A LICENSED CONTRACTOR EXPERIENCED WITH DOOR INSTALLATIONS.

EVALUATION OF THIS PRODUCT IS BASED ON APPLICABLE STANDARDS AND/OR INFORMATION & RESULTS FROM APPLICABLE TEST REPORTS. THE BUILDING CODE VERSION CONSIDERED WITH THIS EVALUATION WAS THAT IN FORCE AT THE TIME OF THE EVALUATION. IN THE EVENT OF CODE VERSION CHANGES/UPDATES OR IN THE EVENT THAT NEW OR ADDITIONAL TESTING IS COMPLETED ON THIS PRODUCT, PRIOR TO STATING CODE COMPLIANCE, THE MANUFACTURER SHALL CONFIRM WITH THE EVALUATION ENGINEER OF RECORD THAT EVERYTHING SPECIFIED HERE-IN IS CURRENT WITH ALL CURRENT TESTING, CODES AND APPLICABLE STANDARDS.

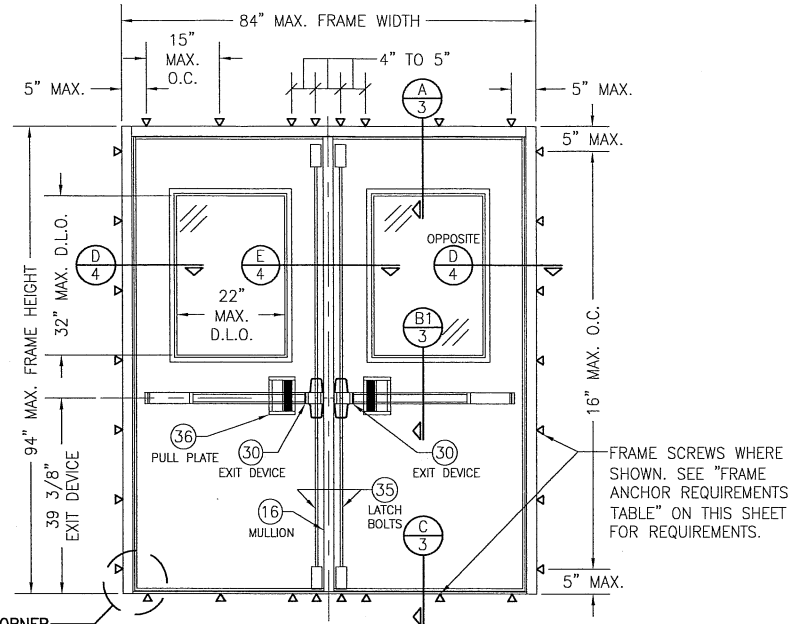
NOTE: THESE DOOR UNITS ARE NOT WATER RATED AND THUS ARE NOT APPROVED FOR USE WHERE WATER INFILTRATION RESISTANCE IS REQUIRED BY THE DOOR.

CORNER CONSTRUCTION:

FRAME HEAD CORNERS: THE HEAD FRAME BUTTS TO THE SIDE JAMB AND IS SECURED WITH SHEAR BLOCK PART NO. 21. HEAD IS SECURED TO THE SHEAR BLOCK WITH 5 NO. 12 X 1/2" S.S. FH SCREWS THROUGH THE HEAD AND INTO THE SHEAR BLOCK. JAMB IS SECURED TO THE SHEAR BLOCK WITH 3 NO. 12 X 5/8" S.S. FH SCREWS THROUGH THE SHEAR BLOCK INTO THE JAMB. JOINT COMPLETELY SEALED WITH SEALANT.

FRAME SILL CORNERS: THE THRESHOLD BUTTS TO THE SIDE JAMB AND IS SECURED WITH A 1 1/2" X 3/4" X 1/8" X 1 1/2" LONG ALUMINUM ANGLE PART NO. 25 (3/4)" LEG IS SET INSIDE JAMB WHILE 1 1/2" LEG SITS UNDER THE THRESHOLD). ANGLE IS SECURED TO EACH THE JAMB AND THRESHOLD WITH 2 NO. 10 X 1 1/2" COUNTER SUNK FMS SCREWS. JOINT IS COMPLETELY SEALED WITH SEALANT.

DOOR LEAF TOP & BOTTOM CORNERS: RAILS ARE BUTTED TO THE STILES AND CONNECTED WITH 4 NO. 10 X 1/2" S.S. FH SCREWS.



SEE CORNER—
CONSTRUCTION
DESCRIPTIONS
ON THIS SHEET

INTERIOR ELEVATION:
DOUBLE RECTANGULAR DOOR

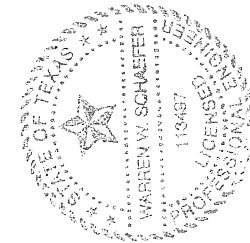
SCALE: $1/2" = 1'-0"$

ALLOWABLE DESIGN PRESSURE (DOUBLE DOORS)
+/-65 PSF


FRAME ANCHOR REQUIREMENTS TABLE

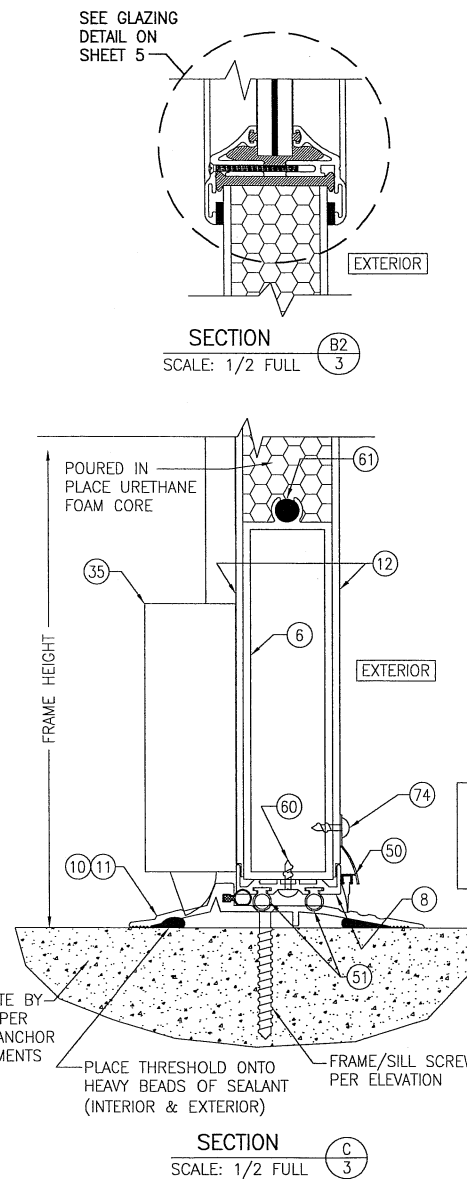
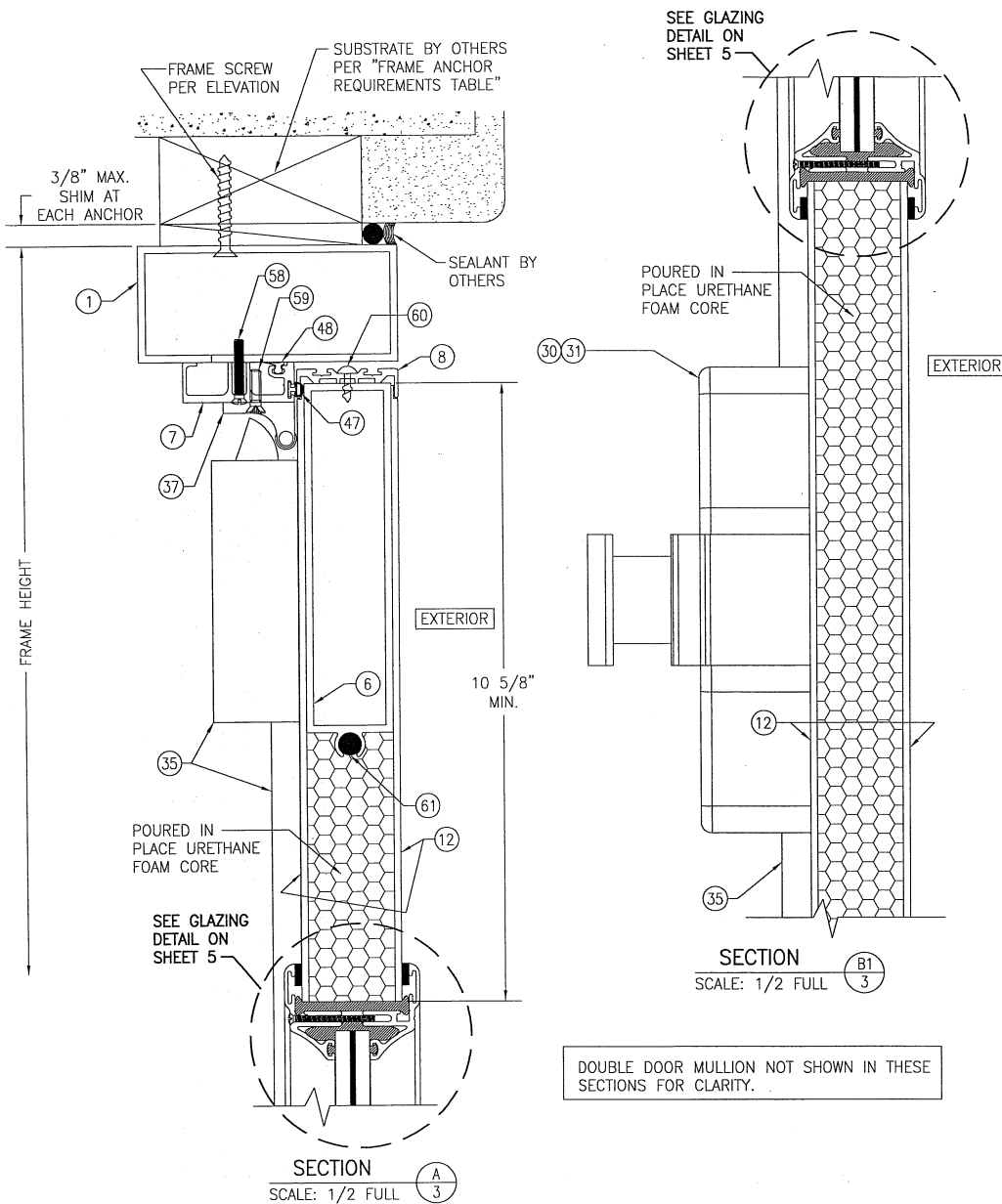
FRAME SCREWS				
OPENING TYPE (SUBSTRATE)	FRAME TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.	
MIN. 2X4 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	NO. 12 SMS OR WOOD SCREW	1 1/4"	3/4"	
MIN. 18 GA. 33 KSI METAL STUD	NO. 12 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"	
MIN. 1/8" THK A36 STEEL	NO. 12 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"	
MIN. 1/8" THK 6063-T5 ALUM.	NO. 12 GR. 5 SELF TAP/DRILL SCREW	FULL	1/2"	
MIN. C-90 CMU	(1) 1/4" CONCRETE SCREW	1 1/4"	2"	
MIN. 2500 PSI CONCRETE	(1) 1/4" CONCRETE SCREW	1 1/2"	2"	

(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S OR S.S.).

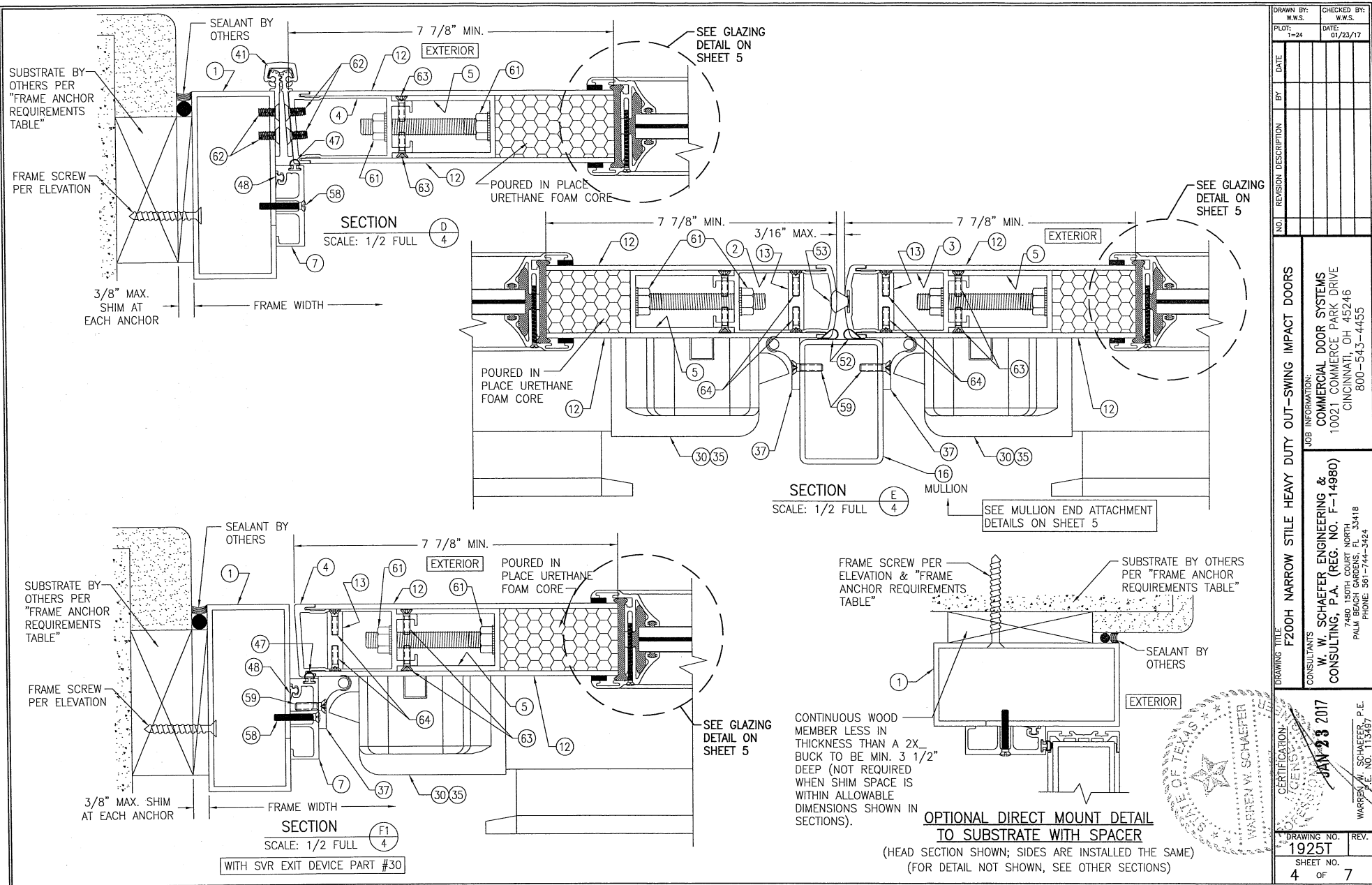


THESE DRAWINGS ARE APPLICABLE ONLY TO THE PRODUCT SPECIFIED. THEY MAY NOT BE USED FOR THE ASSEMBLY AND/OR INSTALLATION OF ANY OTHER PRODUCT NOR MAY THEY BE USED FOR RATIONAL AND/OR LOCAL APPROVAL OF ANY PRODUCT NOT PRODUCED BY THE MANUFACTURER STATED ON THESE DRAWINGS.

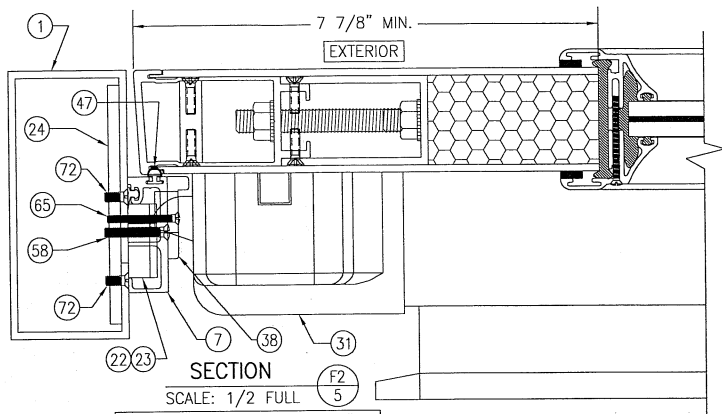
DRAWING NO. 1925T	SHEET NO. 1 OF 7	REV.	CERTIFICATION JAN 23 2017  WARREN W. SCHAEFFER, P.E. P.E. NO. 113497	DRAWING TITLE F200H NARROW STILE HEAVY DUTY OUT-SWING IMPACT DOORS	CONSULTANTS W. W. SCHAEFFER ENGINEERING & CONSULTING, P.A. (REG. NO. F-14980) 7480 LINDSEY PARK NORTH PALM BEACH, FL 33418 PHONE: 561-744-3424	JOB INFORMATION: COMMERCIAL DOOR SYSTEMS 10021 COMMERCE PARK DRIVE CINCINNATI, OH 45246 800-543-4455	NO. REVISION DESCRIPTION BY DATE	PLOT: 1=24	DRAWN BY: W.W.S.	CHECKED BY: W.W.S.	DATE: 01/23/17



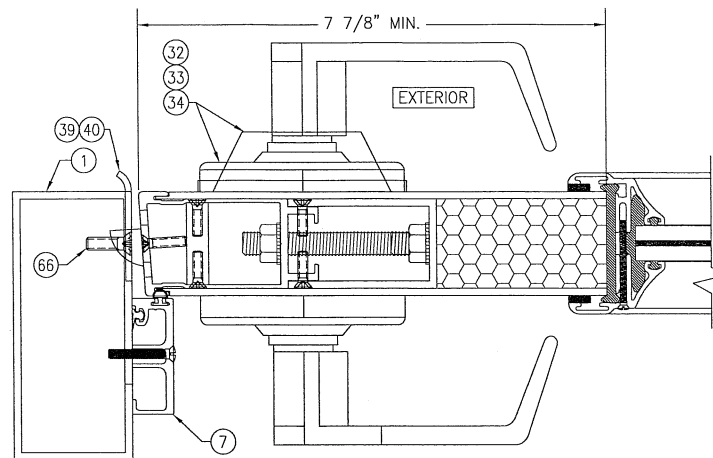
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DATE: 1-24	DATE: 01/23/17
BY:	
REVISION:	
DESCRIPTION:	
NO.:	
DRAWING TITLE: F200H NARROW STILE HEAVY DUTY OUT-SWING IMPACT DOORS	
JOB INFORMATION: CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (REG. NO. F-14980) 10021 COMMERCE PARK DRIVE CINCINNATI, OH 45246 800-543-4455	
7480 150TH COURT NORTH PALM BEACH, FL 33418 PHONE: 561-744-3424	
CERTIFICATION: JAN 23 2017 WARREN W. SCHAEFER, P.E. P.E. NO. 113497	
DRAWING NO.:	REV.
1925T	
SHEET NO.:	
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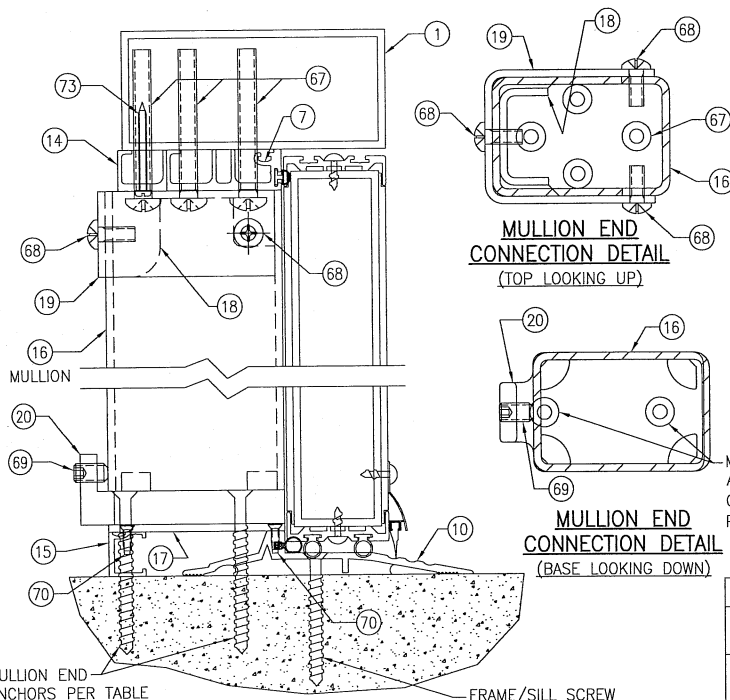
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JOB INFORMATION: COMMERCIAL DOOR SYSTEMS 10021 COMMERCE PARK DRIVE CINCINNATI, OH 45246 800-543-4455	
CERTIFICATION: I am certifying that I am a duly Licensed Professional Engineer in the State of Texas. W. W. SCHAEFER, P.E. No. 113497	
DRAWING NO. 1925T SHEET NO. 4 OF 7	



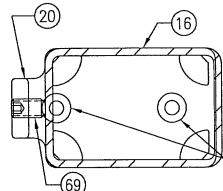
SECTION F2
SCALE: 1/2 FULL
WITH RIM EXIT DEVICE PART #31
(FOR INSTALLATION & OTHER DETAIL NOT SHOWN, SEE SECTION F1/4)



SECTION F3
SCALE: 1/2 FULL
WITH DEADBOLT PART #32 AND LEVERSET PART #33
OR
WITH DEADBOLT PART #32 AND LEVERSET PART #34
(FOR INSTALLATION & OTHER DETAIL NOT SHOWN, SEE SECTION F1/4)



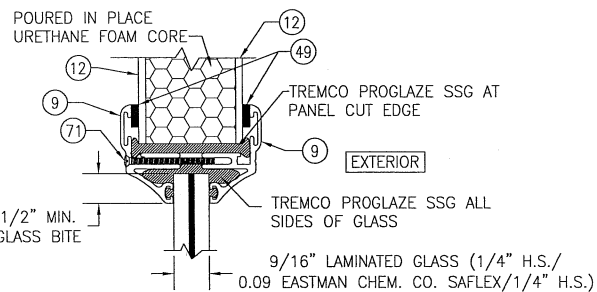
MULLION END
CONNECTION DETAIL
(TOP LOOKING UP)



MULLION END
CONNECTION DETAIL
(BASE LOOKING DOWN)

MULLION END ANCHORS PER TABLE ON THIS SHEET (2 PER MULLION)
FRAME/SILL SCREW PER ELEVATION

MULLION END CONNECTION DETAIL
(SIDE VIEW)

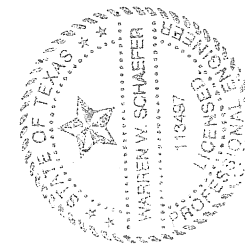


TYPICAL GLAZING DETAIL

MULLION END ANCHOR REQUIREMENTS (BASE END)

OPENING TYPE (SUBSTRATE)	FRAME TO OPENING FASTENER TYPE	MINIMUM EMBED	MINIMUM EDGE DIST.
MIN. 2X6 WOOD FRAME OR BUCK (MIN. GR. 3 & G=0.55)	1/4" OR 5/16" LAG SCREW	1 1/4"	1"
MIN. 2500 PSI CONCRETE	(1) 1/4" OR 5/16" CONCRETE SCREW	1 1/2"	2"

(1) CONCRETE SCREWS SHALL BE ELCO ULTRACONS (C.S.), ELCO CRETE-FLEX (S.S.), ITW RAMSET/RED HEAD TAPCONS (C.S. OR S.S.) OR HILTI KWIK-CON II (C.S. OR S.S.).



DRAWING TITLE: F200H NARROW STILE HEAVY DUTY OUT-SWING IMPACT DOORS		DRAWN BY: W.W.S.	CHECKED BY: W.W.S.
JOB INFORMATION: CONSULTANTS: W. W. SCHAEFER ENGINEERING & CONSULTING, P.A. (REG. NO. F-14980) 10021 COMMERCE PARK DRIVE CINCINNATI, OH 45246 800-543-4455		DATE: 01/23/17	
DRAWING NO. 1925T		SHEET NO. 5	OF 7

